

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

19704 U.S. PTO
10/621999
07/17/03



Patentee: **Shen et al.**

Assignee: **Atwood Mobile Products, Inc.**

U.S. Patent No.: **5,573,648** **Date Issued:** **November 12, 1996**

Application No.: **381,718** **Date Filed:** **January 31, 1995**

Title: **GAS SENSOR BASED ON PROTONIC CONDUCTIVE
MEMBRANES**

Mail Stop Reissue
Commissioner for Patents
P.O. Box. 1450
Alexandria, VA 22313-1450

**TRANSMITTAL LETTER FOR REISSUE APPLICATION OF
U.S. PATENT No. 5,573,648**

Dear Sir:

Enclosed for filing please find the following reissue application papers for the above referenced patent:

- (i) Return Receipt Postcard;
- (ii) Reissue Application Fee Transmittal Form;
- (iii) Power of Attorney or Authorization of Agent Form;
- (iv) Reissue Application Declaration by the Assignee;
- (v) Chart Showing Differences in Claim Language between the Original Patent Claims and the Presented Reissue Claims;
- (vi) Reissue Application Consent of the Assignee;
- (vii) Certificate Under 37 C.F.R. § 3.73(b);
- (viii) Preliminary Amendment;
- (ix) Copy of Specification, Figures and Claims of U.S. Patent No. 5,573,648;

- (x) Statement Under 37 C.F.R. § 1.178(b); and
- (xi) Certificate of Express Mail.

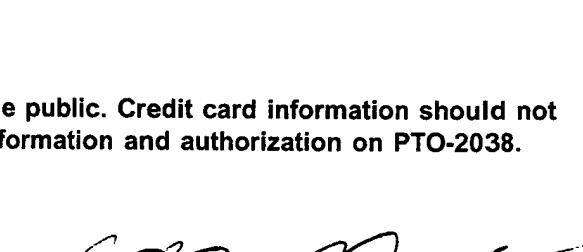
The Commissioner is hereby authorized to charge all fees or credit overpayments to Deposit Account No. 19-0733.

Respectfully submitted,
Shen et al.

Date: 17 July 2003

By: 
Peter D. McDermott (Reg. No. 29,411)
Attorney for Applicants
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

REISSUE APPLICATION FEE TRANSMITTAL FORM						Docket Number (Optional) 011361.00064		
Claims as Filed - Part 1								
Claims in Patent		Number Filed in Reissue Application	(3) Number Extra	Small Entity		Other than a Small Entity		
				Rate	Fee	Rate	Fee	
(A) 78	Total Claims (37 CFR 1.16(j))	(B) 88	**** 10 =	x \$ ____ =		or	x \$ 18 =	180
(C) 4	Independent claims (37 CFR 1.16(i))	(D) 9	* 5 =	x \$ ____ =			x \$ 84 =	420
Basic Fee (37 CFR 1.16(h)) \$ _____						\$ 750		
Total Filing Fee \$ _____								
OR \$ 1,350								
Claims as Amended - Part 2								
	(1) Claims Remaining After Amendment		(2) Highest Number Previously Paid For	(3) Extra Claims Present	Small Entity		Other than a Small Entity	
					Rate	Fee	Rate	Fee
Total Claims (37 CFR 1.16(j))	***	MINUS	**	* =	x \$ ____ =		x \$ ____ =	
Independent Claims (37 CFR 1.16(i))	***	MINUS	*****	=	x \$ ____ =		x \$ ____ =	
Total Additional Fee \$ _____						\$ 0 OR \$ _____		
OR \$ _____								
<p>* If the entry in (D) is less than the entry in (C), Write "0" in column 3.</p> <p>** If the "Highest Number of Total Claims Previously Paid For" is less than 20, Write "20" in this space.</p> <p>*** After any cancellation of claims.</p> <p>**** If "A" is greater than 20, use (B - A); if "A" is 20 or less, use (B - 20).</p> <p>***** "Highest Number of Independent Claims Previously Paid For" or Number of Independent Claims in Patent (C).</p>								
<input type="checkbox"/>	Applicant claims small entity status. See 37 CFR 1.27.							
<input type="checkbox"/>	Please charge Deposit Account No. _____ in the amount of _____. A duplicate copy of this sheet is enclosed.							
<input checked="" type="checkbox"/>	The Commissioner is hereby authorized to charge any additional fees under 37 CFR 1.16 or 1.17 which may be required, or credit any overpayment to Deposit Account No. <u>19-0733</u> . A duplicate copy of this sheet is enclosed.							
<input type="checkbox"/>	A check in the amount of \$ _____ to cover the filing / additional fee is enclosed.							
<input type="checkbox"/>	Payment by credit card. Form PTO-2038 is attached.							
WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.								
<u>17 July 2003</u> Date				 Signature of Applicant, Attorney or Agent of Record				
<u>Peter D. McDermott (Reg. No. 29,411)</u> Typed or printed name								

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patentee: **Shen et al.**

Assignee: **Atwood Mobile Products, Inc.**

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Title: **GAS SENSOR BASED ON PROTONIC CONDUCTIVE
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Mail Stop Reissue
Commissioner for Patents
P.O. Box. 1450
Alexandria, VA 22313-1450

CERTIFICATE UNDER 37 C.F.R. § 3.73(b)

Dear Sir:

Atwood Mobile Products, Inc., the owner of all right, title and interest to the above-referenced patent, states that it is:

The assignee of the entire, right, title and interest in the patent identified above by virtue of:

(1) An Assignment from the inventors of the patent application/patent identified above to Atwood Industries, Inc. The assignment was duly recorded in the United States Patent and Trademark Office at Reel 007454, Frame 0737 on January 31, 1995; and

(2) The documents attached to this Certificate show that Atwood Industries, Inc. made a capital contribution of all its assets to Atwood RV Products, Inc. The documents attached to this Certificate also show that Atwood RV Products, Inc., through a merger and name change, became Atwood Mobile Products, Inc.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

7 July 2003
Date



David Bovee
Vice President
Dura Automotive Systems, Inc.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Commissioner for Patents
P.O. Box. 1450
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CERTIFICATE OF EXPRESS MAIL

Dear Sir:

Express Mail Label No.: EV323344585US

Date of Deposit: 17 July 2003

I hereby state that the following:

- (i) Return Receipt Postcard;
- (ii) Reissue Application Transmittal Letter (2 pages);
- (iii) Reissue Application Fee Transmittal Form (1 page in Duplicate);
- (iv) Power of Attorney or Authorization of Agent Form (2 pages);
- (v) Reissue Application Declaration by the Assignee (8 pages);
- (vi) Chart Showing Differences in Claim Language between the Original Patent Claims and the Presented Reissue Claims (395 pages);
- (vii) Reissue Application Consent of the Assignee (1 page);
- (viii) Certificate Under 37 C.F.R. § 3.73(b) (11 pages);
- (ix) Preliminary Amendment (25 pages);
- (x) Copy of Specification, Figures and Claims of U.S. Patent No. 5,573,648 (18 pages);
- (xi) Statement Under 37 C.F.R. § 1.178(b) (2 pages); and
- (xii) This Certificate of Express Mail (2 pages)

*Certificate of Express Mail for
Reissue Application of U.S. Patent No. 5,573,648
Page 1 of 2*

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10, on the date indicated above and is addressed to Mail Stop Reissue, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Rachelle Chery



Signature of person mailing paper or fee

Addendum

Attachment 1

Gas Sensor Based on Protonic Conductive Membranes